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096519 - Resilient Tile Flooring

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096519 - Resilient Tile Flooring
SECTION 09 6519 - RESILIENT TILE FLOORING

1.1 SUMMARY
A. The University prefers to use regional materials within a 500 mile radius of the campus.
B. Section Includes:
   1. Rubber floor tile, rubber stair treads, rubber landing material and rubber nosing.
   2. Vinyl composition floor tile.
   3. Quartz Tile.
   4. Concrete Floor Prep.

1.2 SUBMITTALS
A. LEED Submittals:
   1. Product Data for Credit EQ 4.1: For adhesives, sealants and chemical-bonding compounds, including printed statement of VOC content.
   2. Product Data for Credit MR 4.1 and 4.2-Recycled content 30% Pre-Consumer Recycled Content, no DEHP no phthalates.

1.3 QUALITY ASSURANCE
A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
   1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

1.4 EXTRA MATERIALS
A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Floor Tile, base, treads and landing materials: Furnish 1 box for every 50 boxes or fraction thereof, of each type, color, and pattern of floor tile installed.

1.5 RUBBER FLOOR TILE AND BASE
A. Manufacturers:
   1. Burke Mercer Flooring Products, Division of Burke Industries Inc.
   2. Johnsonite.
   5. Roppe Corporation, USA.
B. Tile Standard: ASTM F 1344, Class I-A, homogeneous rubber tile, solid color or Class I-B, homogeneous rubber tile, through mottled.

C. Hardness: Not less than 85 as required by ASTM F 1344, measured using Shore, Type A durometer per ASTM D 2240.

D. Wearing Surface: Smooth.

E. Thickness: 0.125 inch (3.2 mm).

F. Size: 12 by 12 inches (305 by 305 mm) or 24 by 24 inches (610 by 610 mm).

1.6 VINYL COMPOSITION FLOOR TILE

A. Manufacturers:
   1. Armstrong World Industries, Inc.
   2. Mannington Mills, Inc.
   3. Tarkett, Inc.

B. Tile Standard: ASTM F 1066, Class 1, solid-color tile or Class 2, through-pattern tile.

C. Wearing Surface: Smooth.

D. Thickness: 0.125 inch (3.2 mm).

E. Size: 12 by 12 inches (305 by 305 mm).

1.7 QUARTZ VINYL TILE

A. Basis-of-Design Product: Quartz Tile by Altro or owner considered alternate.

1.8 INSTALLATION MATERIALS

A. Adhesives: Water-resistant type recommended by manufacturer to suit floor tile and substrate conditions indicated.

   1. Use adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
      a. VCT and Asphalt Tile Adhesives: Not more than 50 g/L.
      b. Rubber Floor Adhesives: Not more than 60 g/L.

1.9 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
B. Concrete Substrates: Prepare according to ASTM F 710.

1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
4. Moisture Testing: Perform tests recommended by manufacturer and as follows. Proceed with installation only after substrates pass testing.
   a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
   b. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 75% relative humidity level measurement.

C. Concrete Slab Moisture Mitigation: Hydroseal Primer or owner considered alternate for VCT or Quartz Tile installation.

1.10 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protection of floor tile.

B. Perform the following operations immediately after completing floor tile installation:
   1. Remove adhesive and other blemishes from exposed surfaces.
   2. Sweep and vacuum surfaces thoroughly.
   3. Damp-mop surfaces to remove marks and soil.

C. Protect floor tile products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Floor Polish: Remove soil, visible adhesive, and surface blemishes from floor tile surfaces before applying liquid floor polish.
   1. Apply in accordance with the University’s approved finish/wax instructions.

E. Cover floor tile until Substantial Completion.

END OF SECTION 09 6519